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Embry-Riddle Aeronautical University

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ERAU freshman Joseph Rotunda has been involved in aeromodeling for five years. Majoring in Aeronautical Engineering, Joseph is shown with one of his projects.



The Avion

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY

VOLUME 18 NUMBER 11

Daytona Beach, Florida

MONDAY, DECEMBER 9, 1974

ERAU Trustee Challenges Senior Class

The senior class has accepted a fund raising challenge from Embry-Riddle Trustee Jay Adams, who will match-dollar for dollar—funds from the Student Government Association treasury plus any extra money the seniors can collect.

According to Dave Owens, senior class president, the money will be used to put a new sign at the entrance of the school's Academic Complex on Clyde Morris Boulevard.

"We had a choice of using the SGA funds for a senior party or for something more

useful, so we decided to skip the party and accept the fund raising challenge," Owens said.

Adams, who owns and operates Guy B. Odum and Co., Inc., a local insurance firm, is a member of the ERAU Board of Trustees Executive Committee and headed the University's first local building fund drive in 1966. He was installed as president of the Daytona Beach Chamber of Commerce this week.

The seniors have until graduation, December 17th, to meet the challenge.

Notice

NOTE: The Florida Legislature is at present working on a state statute that will require all motorcycle operators to have in their possession while operating a motorcycle a valid state approved permit. At present there are several states, such as California and New Jersey just to name two, that require special-motorcycle operator permits. Refer to page 3.

Unusual Aircraft Seminar Reveals Interesting Concepts

By Don Duffy

Just think, someday you may be flying a Cessna 172 and wish that your wings were eighteen inches shorter and be able to do something about it, without putting the wing tips into the Daytona Tower. Just think someday in the near future, you may want to own an aircraft, so you'll be able to go out and buy a new Birdman L-1, complete without landing gear.

Sound interesting? These were just a few of the topics discussed at the recent Unusual Aircraft Design Seminar. The ERAU speakers were Dr. Donald Ritchie, Mr. James Ladesic, and Mr. Emmet "Birdman" Tally. The seminar took place in Room A108 of the Academic Complex, Tuesday, the 26th of November.

The meeting started promptly at 3:00 with Mrs. Sandra Lamar presenting the first speaker, Dr. Donald Ritchie. Dr. Ritchie was very interesting, and lectured about many of the unusual aircraft designs he has worked on. He presented ideas such as a fighter type aircraft designed with two inline water cooled engines, mounted in the roots of the wings, and hooked up to a gear reduction assembly in the fuselage. He briefly talked about an aircraft with a multi-bladed propeller that rotates around the fuselage like a fan. Another unusual type of aircraft discussed was a combination fixed wing/rotary wing aircraft. It was designed to take off and land vertically by means of a ro-

competitive events since 1971. He is a member of the American Institute of Aeronautics and Astronautics (AIAA), and the Daytona Beach Control Line Club.

Joseph is one of six recipients selected by AMA's Scholarship Committee. Factors considered were grade average, class ranking, national test results, school and community leadership activities, and performance in AMA aero-modeling competition activities. The Scholarship funds awarded to the recipients will be used in furthering their education at colleges of their choice.

The Academy's scholarship program was established in 1968 and is funded by contributions and apportionment of dues by members of the Organization. AMA is a 52,000 member non-profit association in Washington DC.

NOTICE

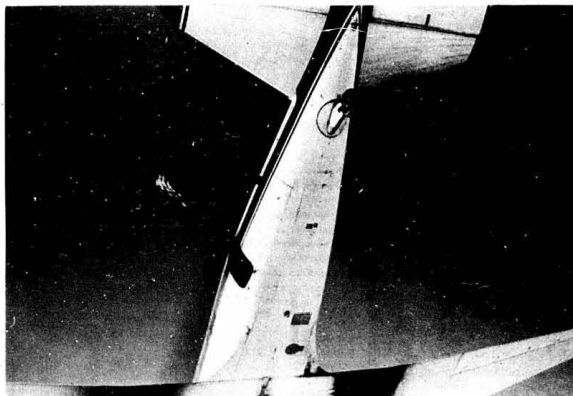
New intermediate German classes starting immediately. Students and wives with some conversational German, interested in participating please contact Mrs. D. Ritchie at 253-3128.

NOTICE - FOREIGN STUDENTS

If you are planning to go home for Christmas you must have an I-20 immigration form with you before you leave. Stop by the Guidance Office, Building 3, as soon as possible to secure your form.

NOTICE

Any student who is graduating or not returning in January please stop by the Dean of Students office and complete a clearance form before leaving.



SWOOSH!

National Collegiate Parachute League Meets

By Dave Grieger

After twenty-two hours of hard competitive jumping, operating from sunrise to sunset beginning on Thursday, Thanksgiving morning, approximately 200 collegiate parachutists representing twenty universities (including schools in Canada and Japan) performed over 1000 parachute jumps. At 0900 Saturday morning the meet was complete and final scores were being compiled by Collegiate Parachute League officials to determine the standings of all the individual competitors and the ranking of the schools.

Embry-Riddle entrants competed to the best of their ability but were outclassed by the universities that had funded sup-

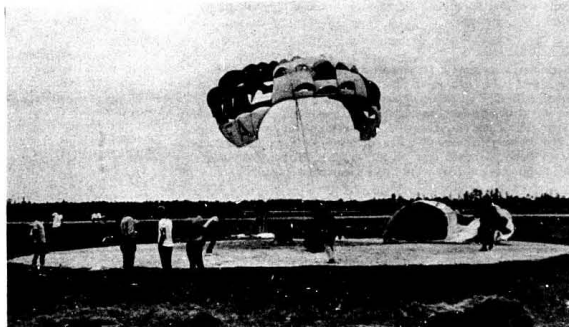
port and sent large teams. Despite our disadvantage the three-man Relative Work team placed fourth out of fifteen completing schools—overthrowing such strong adversaries as both the United States Military Academy (West Point) and the Air Force Academy.

Out of all of the schools competing, Embry-Riddle finished thirteenth. Andy Ryeing, Bill Murray and Dave Johnson formed the Relative Work team; Dave Grieger entered Advanced Accuracy; Doug Benson competed in the Novice Accuracy.

The Embry-Riddle Competition team and Sport Parachute Club would like to extend its sincere thanks and appreciation to the ERAU Veteran's Asso-

ciation for their moral support and assistance. On "Turkey Day" after nine hours of continuous parachuting, the Vet's delivered a Thanksgiving Dinner to us at the Drop Zone in DeLand. The food was delicious, and we were very tired and hungry. The Vet's came over every day during the meet rendering support and assistance.

It was noted that none of the faculty or staff visited the competition, displaying the same altitude that was present when the club tried to obtain financial backing for the team. Maybe next year?



PLOP!

OPINION

The opinions expressed in this paper are not necessarily those of the university nor all members of the student body. Letters appearing in The Avion do not necessarily reflect the opinions of this newspaper or its staff.

Editorial

This is it! It's the last time I take pencil in hand to subject you to my own little mind wanderings. It's been a normal trimester I suppose with a couple of problems receiving superficial first aid and a dozen more surfacing as each take their places on campus.

I began this tri by asking that better quality signs and posters be displayed around the Academic Complex and that more responsibility be taken in the removal of outdated ones. For those of you that helped "dress-up" the area, thanks. For those of you, especially faculty, who couldn't find time to remove more change notices in a timely fashion—we'll see.

We can be proud of the tri's election turn-out and especially proud of the efforts of this tri's SGA. Much of the organizations backbone is graduating in December and only a responsible student body can insure that they are succeeded by first class leaders in the spring.

We've seen speed bumps of eight, seven, six and at last four inches. With all the criticism however, they have made the parking lot a safer place to walk or drive. Also the weeds are down and Gill Robb Wilson is once again visible.

Most of all this trimester, I've talked a lot about the Avion. I've tried to impress you with our FREE classified ads to all students and FREE commercial advertising to clubs and organizations. It didn't sink in though, every week I have someone come in to inquire about charges for these services that are yours FREE. Remember, we're spending you're money already as we are partially funded by the SGA through YOUR fees. The Avion is also an excellent place to voice your views to the student body, administration and most of the trustees receive and read the paper. That's an audience considerably larger than one can muster at the coffee shop.

At times it's been a very disappointing tri with several sad-sending events taking place. An Embury-Riddle student was killed in a motorcycle accident, another student was dismissed on drug charges and an untold number have been involved in injury accidents of one type or another. Again this trimester the number of students observed cheating on exams is increasing.

But there's a bright side too, student involvement is up but not to a desired level. The University Center is moving along even if at a snail's pace. We've had better social functions, movies, speakers and visitors this trimester. And best of all to some, it's almost graduation time.

So for this tri, "A Merry Christmas to all and to all a good tri."

Have a safe and happy holiday season and we'll be back January 24th, 1975.

Art

From The Tower

ATIS - 120.05

This is a reminder that the Daytona Beach ATC Tower recently commissioned automatic terminal information service (ATIS) on frequency 120.05. In order to reduce frequency congestion, pilots of both arriving and departing aircraft are urged to listen to the ATIS broadcast prior to calling Daytona Beach ATC Tower.

LOCATION ON THE AIRPORT

Use of parallel runways, and increased traffic, coupled with the expansion of aviation facilities to various sections of the airport property have increased the importance of our need to be aware of your location on the airport. Therefore, pilots should identify:

- The ramp location when ready to taxi for takeoff.
- The runway they have landed on, after turning off and contacting ground control.
- The runway number and taxiway intersection when ready for takeoff.

AREA OF NONVISIBILITY FROM THE TOWER

Construction of a new hanger on the east side of the airport adjacent to the approach end of Runway 241 has resulted in a portion of taxiway now not visible from the control tower, which is behind the hanger to the southeast. Pilots should use caution taxiing in this area and be advised information issued is only advisory in nature.

LOCKHEED 1011

Beginning sometime in December, Eastern Airlines has scheduled a Lockheed 1011 flight arriving daily in Daytona Beach. This is considered a "heavy" jet and can create more wake turbulence problems than the turbojets which we have been accustomed to seeing in here to date. Pilots are encouraged to review Wake Turbulence Procedures (Advisory Circular 90-23D) and also note the occasional delays to your operation may be encountered so that the possible wake turbulence created by the L-1011 may be avoided.

Elbert H. Chambers, Jr.
Chief, Daytona Beach ATC Tower

Twas the day after Christmas,
And all through my clothes,
I hunted for money
To pay what I owe.
Not a dollar was stirring,
Not even two bits.
My money has left me;
My credits is quits.
Forward, turn forward
O time in thy flight.
And make it past Christmas
And my dollar plight.

Use one crisp-cold December
even topped by sparkling stars.
Add a pinch of frost and a
layer of crunching snow.
Prepare a crackling hot fire-
place.
Sprinkle in some holly and a
dash of fir.

Mix gently with a preparation
of family and friends.
Top this mixture with the
joy of a get-together.

Let simmer in the warmth
and good will of each one's
heart.

Season with a few smiles and
a bushel of love.
Set before an evergreen tree
tinseling with silver and topped
by the star of hope.

Serve to the strains of a
Christmas Carol.

Feel the goodness of living.
And the yield is one VERY
MERRY CHRISTMAS!!

Savings For Out-of-state Graduate Students

Last spring, Michael Boggs, a 24-year-old social worker, had a problem. After two years of working, he had decided to go to graduate school. But his chosen field—urban and regional planning—is offered by only a handful of institutions in the South, none of them in his home state.

Furthermore, the out-of-state tuition rates and travel expenses to one of his top choices, Florida State University (FSU), all but ruled out his possibilities of applying there.

But today Mike is enrolled as a graduate student at FSU. He pays Florida tuition rates, rather than out-of-state fees and has "no financial burden to speak of." The recipient of a scholarship or GI benefits?

No, Mike Boggs was the first of many Southern students to take advantage of a unique sharing arrangement, whereby students in selected graduate programs can enroll on a resident-student basis in out-of-state institutions.

It's called the Academic Common Market (ACM). Launched last spring by the Southern Regional Education Board (SREB), the market aims to increase accessibility but discourage duplication of highly specialized and often expensive graduate programs. As a result programs at 34 institutions in twelve states—Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, South Carolina, Tennessee, Virginia and West Virginia—are now available to qualified out-of-state persons at in-state rates.

As in Mike's case, the 140 programs thus pooled are usually either quite specialized or available at relatively few institutions. The Expressive Therapies program at the University of Louisville is a case in point. This combination of psychology and art used in the treatment of the mentally disturbed was unheard of six years ago, and even today only six other schools in the country offer it. Because it is an entry in the ACM, Ann Stump, a Floridian with a degree in printmaking from Birmingham Southern, is now enrolled in the program at in-state rates.

Other programs offered, listed in the Academic Common Market, range from nutrition to textile engineering, from African history to environmental health.

Unlike the lengthy and often intimidating forms needed to apply for financial aid, the qualification process for the market is simple. There are only two requirements: acceptance in a program offered through the market, and proof that one is a resident in a state which has made arrangements to send its residents to that program.

In most cases, the latter merely involves providing one's ACM state coordinator with xeroxed copies of a driver's license and/or a voter registration card. As Mike phrased it, I answered two or three questions last spring, and when I arrived at FSU this fall, I was already classified as a resident student. There was no extra hassle," he adds. "For all purposes, I was treated as a Floridian."

However, students should complete the certification of state residency well in advance, since requests made after a quarter has started would probably not be honored until the next quarter.

PRESIDENT'S CORNER

By Andy Dyndul



Greetings to my regular readers and salutations to the lucky graduating seniors.

As exams approach us next week the idea of getting the hell out of here for Christmas becomes more and more appealing. Even though we have a long Christmas break there are many students that will be staying here in beautiful sunny Daytona Beach, to those students I ask for your help, during this period. There are many projects I'd like to get going and with your help success would be the only outcome. In the next few paragraphs I'll describe some of the projects, but if you are willing to help there is a multitude of worthwhile things you can do.

If you have checked your mail box, lately, I'm sure you have found a letter asking for help, so I'll briefly explain what the student recruitment committee and the SGA are trying to do. The letter is trying to obtain student volunteers to contact prospective students that have inquired to the University and live in your home town. So far, for this project the turn out has been very good and everyone is very optimistic.

As I mentioned last week, the SGA is trying to sponsor a general information area during orientation and registration. My appeal for volunteers is primarily directed toward the SGA senators, fraternities and all other campus organizations. Consider the tangible benefits your organization can achieve by helping the new and continuing students.

In closing I'd like to extend my sincere congratulations to every graduating senior and wish you the best of luck in all your endeavors. It has been a real privilege being associated with you.

Andy

The reports of students already involved in the market speak for themselves. One Alabama youth said, "I'm not kidding anybody. There's no way I'd be in graduate school if I hadn't heard about the Common Market." An older student, whose age disqualified him from many scholarships, concurred. Yet another, who was ready to withdraw from an out-of-state program because of unforeseen money problems until he heard of the market, said, "It was an unexpected surprise to say the least. There's no way I could have gone to school if I hadn't had it."

Students interested in finding out whether they can participate in the Market should take the following steps:

—Contact the ACM state Coordinator in your home state. In all cases, coordinators are staff members of state higher education agencies, usually located in the state capital.

—Ask the state coordinator for a copy of the Academic Common Market booklet (which lists the available programs and the participating states) and the requirements for certification of state residence.

—If a program you want is offered through ten market and you are eligible for it, apply to the school for admission.

—Once accepted in a program, apply for certification of state residence through your state coordinator.

If a student is unable to locate his state coordinator, he should contact Dr. William Hovenden, Southern Regional Education Board, 130 Sixth Street, NW, Atlanta Georgia 30313.

Inquiries about the Small Grants Program should be directed to Dr. William Hovenden, SREB, 130 Sixth Street, NW, Atlanta, Georgia 30313.

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"Honesty is the first chapter in the book of wisdom."

Thomas Jefferson

★★★★★★★★★★★★★★★★



Some 650 students and guests enjoyed the SGA Thanksgiving Dinner and Dance. Here "Southern Comfort" provides music and entertainment to the guests at Friday's dinner.

Dining Out With The SGA

By W. D. Wise

On Friday night, November 22, the Student Government Association hosted by our illustrious president, Andy Dyndul, held the first of two dinner-dances. The reason for a Thanksgiving get-together was to usher in the final big fling for the student body of the fall trimester. The dinner-dance was held at the attractive Americano Beach Lodge with students being admitted free, (SGA fee of \$11 covered his or her cost) and guests being required to pay a nominal fee of \$3. Prior to entering the Jamaican Lounge, where the dinner was served, each person was stamped with the initials IMP on the back of the hand in black ink. So far I'm sorry to say no one knows what the letters represent. A quick call to the SGA revealed the same answer. "Don't know." Perhaps it could mean "Take More Pride" or "Take More Punch" or it could be a warning to the effect that "Turkey Meat Poisoned."

Anyway the buffet table was decorated with various types of fruits and an uncarved baked turkey (probably for the Country & Western Saturday night gang). The buffet itself was fantastic—appetizers, several different types of snails, mashed potatoes, vegetables, turkey stuffing, cranberries, a creamy sea food sauce full of large chunks of various types of sea food and large platters of juicy white and dark turkey meat, including the drum stick for those who enjoy such legged delicacies. All these delicious dishes were kept piping hot via warming plates. For dessert there was a variety of mouth-watering cakes and pies. The only problem with the first night's dinner was that seconds were only served after 8:00, with no exceptions (few seconds were to be had though). By 7:30 the dining hall was filled to capacity with people stuffing their tummies, drinking Paul Masson Vin Rose Sec and watching the entertainment setting up their equipment for their 8:00 kick-off performance. (They were ten minutes late in starting by the by). At 8:10—

Chazzam! The entire stage came alive with over peaked amps and vibes. Ladys and Gentlemen! May I introduce from Tampa, the Southern Comfort. Seven, wild, swinging, drum beating, guitar twanging, STRAIGHT group that offered a variety of Rock & Roll music from many of the top 40 best hits from by gone years. At about 10 PM the music group made a dramatic change, to say the least. What enveloped the stage was Dilly & the Dildo's from the Greasers era. "Rock & roll is here to stay, all you dumb hippies!" Yes Sir! Dilly, Duke the Puke, Cheese Ball and the gang all layed on the sounds and various performances on the stage that really brought back memories—Teen Angle, and Battle of New Orleans just to name a couple (in some cases a little different rendition, but!) As Dilly was leading the Dildo's off stage, all those that were dancing, swimming, crawling, surfing and twisting joined in a long chain and played the role of mice as the Dildo's played on and on weaving in and out of tables to create a grand finale to their performance. After a short intermission, the Southern Comfort returned to the stage for the concluding hours of the dance which was to end at the stroke of midnight. But! Just about a half hour before the witching hour who should arrive but Merle Haggert (from the Southern Comfort group) to entertain and satisfy all those Country & Western folks who chose to attend Friday's bash instead of Saturdays.

All in all everyone had one (\$/**) of a swinging time. No one got too roughly, the babysitting was a big hit with the parents and the chow was delicious. May I congratulate the student body and the SGA on a well planned Embry-Riddle social function.



GOING PLACES

FLIGHT An Exciting Day

Ted Nottingham's dreams of expanding his credit bureau business were stymied until he learned to fly and bought an airplane. Now he's not thinking in terms of just one additional site, but he says the airplane makes expansion to several cities possible.

Fred Arlet's heating and airconditioning business took on a couple of airports as clients and Fred needed transportation to get to them and to several other locations on which he was bidding. A pilot education course and a new aircraft solved Fred's problems and allowed him to increase his territory, too.

Nottingham and Arlet are just two examples of businessmen who have graduated from Cessna Pilot Centers in recent months and purchased Cessna airplanes for use in their businesses. There are countless others like them all over the country.

The Cessna Integrated Pilot Education System, which was developed by Cessna Aircraft Company after five years of intensive research into the most effective methods of flight instruction, is utilized by the worldwide network of more than 600 CPC's.

Its effectiveness is evidenced in the reduced time, compared to the average, that it takes to earn a private pilot's license. The program provides complete, thorough instruction through which a student can progress at his own pace.

By using four learning environments—audio-visual materials, textbook, workbook, and instructor-student sessions in the airplane—the Cessna Pilot Center courses provide prospective pilots with response-oriented curriculums that result in improved scores at FAA written examination time. Well over 90% of CPC students pass the FAA written exam on the first try—a much higher than average rate.

"The decreased amount of time required to complete the course and the broad range of instruction are the chief reasons so many businessmen are attracted to the Cessna Pilot Center courses," said Bob Lair, Cessna Senior Vice President. Lair pointed out that CPC students complete the course in an average of 45.5 hours—well below the national average of 60 hours. "All of these facts are considered by businessmen who face growing travel problems. More and more are turning to Cessna Pilot Centers throughout the world for their pilot education and from there to business airplane use for efficient, reliable inter-city transportation," he said.

In addition to the basic Private Pilot course, the Professional (Commercial/Instrument) Pilot course and the Flight Review program currently offered, CPC's will begin, in April, to expand their curriculums further with the addition of new Multi-Engine and Certified Flight Instructor's courses.

MOTORCYCLE CLASS MANDATORY?

According to statistics from Dean Mansfield's office, nine Embry-Riddle students have died in the past three years of motorcycle related accidents. DBCC and other local colleges are also having the same problem. To combat this high fatality rate, E-RAU, DBCC, and AMI in conjunction with the Daytona Beach Police Department will conduct a course in motorcycle safety, range driving and other aspects of motorcycling. The course will last from approximately 16 to 20 hours with the chief instructor being Lt. Muffaletto (DBPD). A registration fee of \$5 will be charged to defray cost of textbooks and certificates of completion. The classes will be limited to 20 students per class, with classes being held on January 8-15-22 and 29 (hours from 6-10 PM). For more information please feel free to call Ms. Smiley at Daytona Beach Community College.

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FOR SALE

67 VW Beetle, engine in excellent condition. Body very good. Call 253-5335.

70 VW Beetle, 4 speed, new 8 track tape, sun roof, radio, heater, rear window defroster & many extras, excellent running condition, 5000 miles on rebuilt engine, engine warranty still in effect, \$995 firm. Call 253-6212.

71 650cc Bonneville, recently reworked valves & barrel, TT pipes, excellent running condition, \$850, call Mike after 5 at 252-1958.

71 TRIUMPH 650-4000 mi, 2 helmets, \$1000 or trade for equivalent boat, call 761-2465.

64 VW, good engine, oversize rear tires, 2 spares, MUST SELL, \$350 or best offer. Call 672-2336 or leave a note for Doug in Box 283.

72 Suzuki 500, with windshield crash bars, saddle bags, excellent condition, \$850, call 761-1883.

Honda CB-350, perfect condition, dark green, many extras such as luggage rack &issy bar. Contact Chuck at ER Box 993 or call 253-1450.

70 TRANS AM FIREBIRD—dark blue, air, auto, AM-FM, stereo tape, power brakes and steering, best offer. Call 255-5507 and leave name & number.

71 PINTO sportabout—red, custom interior, air, auto, radio, heat, 2000 cc engine, real good condition, \$1400.

66 VW squareback—25000 mi on rebuilt engine, runs real good ideal for student or second car, 35 mpg at 55 mph, \$500.

10 SPEED BIKES—His-Joannou Racer \$60, Hers-Huffy \$50 or both for \$100.

UMBRELLA TENT—4 man Winchester 9x36, excellent condition, used for only 4 one night trips. Bought for \$60 selling for \$30.

Contact Bill at ER Box 524 or call 761-4915 (home) or 255-0473 (work)

TURNTABLE—Lenco L-75 Scribe, shure cartridge \$80
TUNER AMPLIFIER—Sony STR 6120 with wood cabinet, 90 watts/CHN continuous \$350
STUDIO MIC'S—\$6 each
TAPE DECK—Tandberg 6000x Professional, \$440
AIR PELLET GUN—Crosman Powermaster 260, \$25
TELEVISION—Black & white 14 inch, \$35
BOOKS—Assorted texts.
SLIDE RULE—K&E Decillion— with instruction book
All merchandise new or excellent condition. Contact Tom Pabst at 310 Shady Place, Daytona (a few blocks south of Howard Johnsons off South Ridgewood Avenue).

72 VEGA Hatchback—4 speed, radio, low mileage, excellent condition, \$1300, call 672-2355.

COLOR TV—19 inch Silverstone, excellent condition, MOVING—MUST SELL, call 672-2355.

MOBILE HOME—6x35, excellent condition, asking \$2000 call Keith at 252-2702 from 9 AM to 5 PM.

QUAD SYSTEM—One hundred watt four channel AM/FM, 8 track with four large speakers, \$250

AIR CONDITIONER—6000 BTU Admiral, thermostat, two speed fan and air vent, used two months, \$70. Why wait till it's hot when the price will be up? Contact P. Wilson, ER Box 4145

WANTED

Typing, 50 cents a page, call Sandy at ext. 28 or after 5:30 at 672-8349.

One pair of dark blue sunglasses lost on Nov 28 after 12:15 in a Bldg. These are prescription glasses. I will leave a \$5 reward at the ER Post Office for the person who returns the glasses to box 283.

Two passengers to split flying and costs for a trip to Chicago on Thanksgiving holiday weekend. I guarantee a maximum cost of \$140/person. I am a CFI, and will give dual. Contact Mike, Box 836 or Dorm Room 116.

RIDERS to New Jersey after finals. I have room for two and will leave the afternoon of the 13th. Approximate cost will be \$20. I will be coming back sometime between the 3rd and the 7th. If interested call Bob at 252-9877 for more details.

ROOMMATE to share two bedroom room close to school. Located behind Derbyshire apartments off Sixth St in Holly Hill. This is a new apartment with all electric appliances. Rent, including electric and phone will run from \$104-\$110. Call Bob at 252-9377 for more details.

TWO ROOMMATES to share costs of 3 bedroom mobile home located 5 miles from ER. Contact Box 362, J. Gordon.

FOR RENT

Two Bedroom River Front Apt. Central heat, air conditioned, fully furnished, washer/dryer, all utilities included, \$240/mo. Perfect for 3 students. Call 253-6212 for appointment.

CLASSIFIED**Vet's Club Thanksgiving Dinner**

By Norm Whitson

On November 27th at noon within the simplistic settings of the Holly Hill Knights of Columbus Kingdom Hall, the Embury-Riddle Vet's Club had a Thanksgiving Day feast.

The chairman of the event, Dave Owens, and his committee people went all out in what may be the social event of the year for club members.

Dave and his wife, Vicki, fixed two turkeys and a ham in what could be described, the conventional manner. However, convention stuffed many a member to the brim. Ray Hepper and his spouse, Kim, prepared two turkeys also, and how! Smoked turkey was their specialty and it went over very well with many of those who ate that day until they were ready to—just about die.

Plans had been made well in advance and practically all members (or at least their spouses) made a specialty to bring to the feast. There were several kinds of pies (I enjoyed the apple and the pumpkin myself) vegetables you wouldn't believe and rolls, stuffing, cranberry sauce, and more than room allows to list.

Other members of the committee, Tom Blas, Brian McNeil, Wally Prettymoon and Nelson

Turner set up the dining area and assisted in piling everyone's plate with food, food and more food. If anyone left the dinner hungry I don't know why—that's for sure.

We had a celebrity carving turkeys. The chairman of the Humanities Division from the University, No name is needed, we all know him quite well.

The decorations were kept simple, very much in relationship to the meaning behind the meal. There were turkey silhouettes and other designs we all anticipate for our "day of bounty." One who is used to extravagant decorations might have felt the room was bare but the simplistic decor and long tables around which all jammed together, made the occasion all the more meaningful of that day at Plymouth Rock many years ago.

About the time everyone was loosening ties, belts and buttons to make room for more or ease the restrictions caused by their feasts of nourishments, we were given a respite with acknowledgments to those who had served for our enjoyment that day and several other announcements.

The results of the recent elections of club officers was one of these.

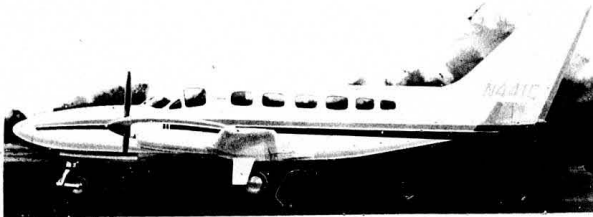
President - Art Brooks
Executive Vice President - Tom Blas
Vice President - Bernie Devine
Treasurer - Kim Augustine
Secretary - none other than Mr. Roger Campbell. (The Embury-Riddle Vets Club allows vets from the University's staff and faculty to hold participating membership.)

There was a reminder for the forth coming Christmas dinner on December sixth and then time was allowed for congratulating the new officers and extending hearty thanks to the officers stepping down, who were so instrumental in the success of the club this past year.

Then it was back for refills, more chatting and finally everyone began their journeys home to relax, watch some good football games and reminisce about highly enjoyable thanksgiving adventures.

A MINORITY of two

In 1802, West Point had its first graduating class. It consisted of two cadets: One was a Catholic and the other was a Jew.

**Cessna Reveals New Business Model**

Cessna Aircraft Company is developing a new twin-engine propjet business airplane, with first deliveries scheduled in 1977.

The airplane, known as the Model 411, is planned to fit into the market between existing piston-engine twins and business fanjets.

"We believe there is an expanding business transportation

market for propjet aircraft," said Cessna President Del Roskam. "By responding to this market with the Model 411, we are providing additional flexibility to meet our customers' requirements."

Roskam said the new Model 411 would fit into the Cessna model line between the pressurized piston-engine Model 421 and the Citation business jet. "The new airplane will be a logical step-up purchase for owners of many piston-engine twins," Roskam said.

The Cessna Model 411 will be a 10 seat airplane with a cruise speed of approximately 320 miles per hour. It will have a gross weight of 9,500 pounds and a range of approximately

2,000 miles with 45-minute reserve.

The airplane will be marketed through Cessna's Commercial Aircraft Marketing Division and the company's worldwide sales and service dealer organization.

The Model 411 is the second major product development to be announced by Cessna in recent weeks. The company also has announced development of a new three-engine intercontinental business jet—the Model 700 Citation III—which will be on the market in 1978.

Cessna manufactures approximately half of all commercial airplanes in the world. Its product line ranges from two-place propeller-driven trainer airplanes through the Citation business jet.

ALUMNI NEWS

Captain Sharon P. Dunlap, son of Mr. and Mrs. Bill Dunlap of 13 Kenneth Avenue, Vandalia, Ohio recently took part in operation "King Grain," a humanitarian airlift mission for draught-stricken villages in the Sahel region of West Africa.

Captain Dunlap is an instructor pilot at Dyess AFB, Texas, with Tactical Air Command's 463rd Tactical Airlift Wing.

The captain's C-130 Hercules unit flew 541 flights into the African villages while delivering more than 9,400 tons of life-saving grain. The airlift, which lasted from June through October, drew praise from both African and American officials.

Captain Dunlap, a 1965 graduate of Vandalia-Butler High School, received his BS degree in 1969 from Embury-Riddle Aeronautical University and is a member of Alpha Eta Rho. He was commissioned in 1969 upon graduation from Officer's Training School, Lackland AFB, Texas.

The captain's wife, Sue, is the daughter of Mr. and Mrs. William E. Smith of 640 Kenbrook Drive, Vandalia, Ohio.

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USAF Opens New European Centers

By Bill Wiggins

Last spring the US Air Force invited Embry-Riddle to open new residence centers at eight Air Force bases throughout Europe. Embry-Riddle agreed last July and now has centers at the following Air Force bases: Alconbury, Bentwaters, Mildenhall, Lakenheath, and Upper Heyford in England.

Ramstein and Zweibrücken in Germany.

Zaragoza in Spain,
Athens in Greece.

In January 1975 residence centers will be opened at Wiesbaden and Rhein Main in Germany and in March at Spangdahlem and Bitburg also in Germany.

There are a total of five courses of study at these bases. Both the Bachelor of Science and Associates degrees are available in Aviation Maintenance Management, Aviation

Management, and Aeronautical Studies.

The two non-degree courses available are Radio Telephone Technology (CRTMT) and Aviation Maintenance Technology (AMT).

The AMT program is offered to enable military personnel to receive their FAA A&P license. RTMT is to enable a graduate to receive a second class FCC radio-telephone license.

The chief coordinate for the European program is Mr. Thomas C. Clay. He is assisted by one full time instructor at each school as well as several qualified part-time instructors.

ERAU Expands Flight Simulator

By Martin Becher

Embry-Riddle is planning to expand its flight simulator program. Already this trimester, two courses have increased the total number of hours in which the student "flies" the simulator. These courses are the Instrument Flight Instructor course and the Multi-Engine Flight Instructor course.

"This is an indication of more things to come" according to Mr. Russell Lewis, Chief Flight Instructor. "Embry-Riddle is looking into organizing a course which would be taught entirely in simulators. This course would cover flight crew responsibilities. 'We are also trying to find out exactly what type of training would best suit the student so that he would have the best chance to be hired after graduation,'" said Mr. Lewis.

The use of simulators is increasing due to a number of factors. First, when using a simulator for training, controlled environment exists. A person can set up any kind of situation. Turbulence, high winds, and other flying conditions may be "encountered". Emergencies can be simulated without endangering the student or the aircraft. Secondly, great fuel savings can be realized. The use of simulators has greatly increased in airline training. In

fact, the upgrading of pilots may only require one or two hours of training in the actual aircraft.

Next trimester, another course will be added. "We are adding a new course, Advanced Instrument III, which will use the multi-engine simulator and the Cessna 310's," Mr. Lewis said. "We are also looking into procedural trainers (simulators which are used by the student to get acquainted with where certain instrumentation is and how to operate them) for further training."

Active Duty

By Frank Stookley

1. NEW OER FOR 1975. For those of you who miss the Army Times, here is an item of interest to all of us. As if a switch to a new OER in 1972 wasn't bad enough, here we go again.

Our new Chief of Staff says a new efficiency report is in the officer corps 1975 future. The job of developing the new report has been given to the Military Personnel Evaluation Division, headed by Col. Daniel J. Tobin, in MILPERCEN's Personnel Management Development Directorate. The Military Personnel Center Group has been at work on a list of improvements in the current OER since early last spring.

According to General Weyand, the upcoming changes "will build on the current system." But he also suggested the new arrangement may use a peer-rating system for some grades, and even provide a system for rating the raters.

We can probably thank the immediate scoring inflation that struck our 1972 system for the current attempts to clean up the mess!

2. DEADLINE SET FOR RA APPLICATIONS. Commissioned officers who want to be considered by the next Regular Army selection board, scheduled for March, must submit their applications by December 31.

Eligibility criteria and a full description of the program are in AR 601-100 and DA Circular 601-54. Applications are supposed to be available at unit personnel offices.

Officers should include a copy of their birth certificate with the application. College transcripts also are useful to the selection board in making its evaluation.

3. UTTAS UPDATE. Although the Sikorsky UTTAS entry was first to fly, the Boeing Vertol Company is making good headway.

As GTV hours mount up, Boeing continues on an orderly, step-by-step basis toward qualifying its first YUH-61A UTTAS for flight.

To minimize the risk, expense and delays inherent in cut-and-try methods, Boeing has undertaken 5000 hours of wind-tunnel testing to perfect the hingeless main rotor, flextrap tail rotor, and airframe. In addition, preflight whirl tests of the main and tail rotor assemblies have been accomplished.

Initial fatigue testing of critical components (rotor hub, transmission, flight controls), as well as shake testing of the fuselage have also been completed. Over 500 hours of overload testing have demonstrated the durability of Boeing's transmission design, which utilizes new high-strength steels. And use of the UTTAS simulator has facilitated the development and human engineering of flight control systems.

Boeing shows their confidence by calling it all "new technology for the Army of the 1980's."

4. AIR FORCE EARLY OUTS

The Air Force has extended its early-out program for young pilots and for the first time has included navigators in the policy.

Three groups now included in the latest early-out directive are pilots holding separation dates of 30 June 1977; three groups of navigators with separation dates through 30 June 1977, and non-rated officers who have completed at least one year of service.

5. LEATHER NECKS RUNNING OUT OF S. The Marine Corps may have to cut a battalion or more from its Pacific strength because of the twin factors of inflation and the budget squeeze.

Announcement

The International Aerobatic Club, chapter 32, Embry-Riddle Memorial, has moved from Commander Aviation in Ormond Beach to the new Nova Flight Center at the Daytona Beach Regional Airport. On Tuesday, December 10th, the club will have a meeting to discuss our upcoming fly-in breakfast and other chapter business including the competition meet coming in January that has four \$500 prizes for winners. Any interested people are urged to attend and even if a pilot has no aerobatic experience he could be ready for competition before the meet.

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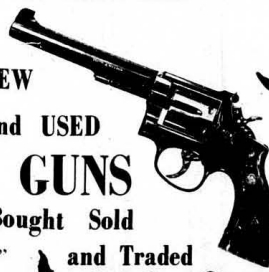
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ERAU Closes Best Season

By Norma Whitson

The Embry-Riddle Golf team has recently completed its best season yet according to Dean John Spears, coach of the golf team. In a statement to the duffers on his team, Coach Spears said, "We have just completed what must be considered the most successful season...The beautiful truth is that we managed to beat or tie somebody in every match but one..."

In gleaming over the past seasons' accomplishments, the coach saw some remarkable improvements in his teams efforts.

An example of the teams improvements can be ascertained from its travels to the Florida Intercollegiate Competition and its closing match of the season with Flagler College.

At the Florida Intercollegiate matches at Fort Malabar on the 13-16 of November, the Eagles beat Stetson University and Biscayne College; the only other two educational institutions at the matches who do not provide scholarships for their teams.

On November 22, the ERAU Eagles had a rematch with Flagler College on their home course at St. August's. Flagler was the only team to defeat the Eagles in a one to one match and tie them on another occasion. The Eagles redeemed themselves on their last contest with Flagler for the seasons finally.

The Eagles won handily with a team score of 310 versus Flaglers 312. The following Eagles compiled these scores:

Stan Bartlett	76
Robbin Donley	76
Gordon Long	79
Paul Loughrey	79
	310

All in all, the season proved to be the best ever put together by the ERAU golfers.

Matches for next season have been lined up already and supporters should take note.

February 6

ERAU host at Palm Coast

February 20

South Florida hosts at South Florida

March 24

Florida Southern hosts at Cleveland Heights.

April 11

Stetson hosts at Deltona

May (TBA)

Rollins hosts, course to be announced

The team will be losing many of its starters, so with some diligent practice over the Christmas break the team expects to improve over their fall trimester accomplishments. If anyone is interested in trying out for the team, contact Dean Spears, Dean of Students.



Eagles Drop Two To Saints

By Jack Bailey

Embry-Riddle Eagles basketball team dropped two home games to the Saints of Florida Bible College on the 22nd and 23rd of November before a small but dedicated crowd of Eagle supporters.

In the first game the Eagles trailed at halftime by a score of 34 to 35. Gary James put the Eagles ahead early in the third quarter with a fifteen foot set shot but the Saints proved to be too strong, and came back to win by a score of 78 to 70.

High point man for the Eagles was Foster with 32 points. James added twelve points to the losing cause. Highpoint man for the Saints was John Beckham with 29 points. Steve Pennington and Gary Haup added a lot of hustle to the Eagles efforts. The Eagles managed to close the gap a bit in game two but their efforts were not good enough. Our sports program can only be what we make it, let's show a little school spirit and support the Eagles. Basketball season is short this year but baseball is just around the bend.

Sport Scuba Club

The Embry-Riddle Sport Scuba Club spent last November 22 underwater. Nineteen members of the club contributed \$5 a-piece to rent a large sink hole at Blue Grotto, Florida and the surrounding picnic area for a day of diving and camaraderie.

Blue Grotto, located near Gainesville, was formed by a collapse of the earth's surface and provides an interesting dive for all different experience levels. The most inexperienced divers stayed in open water and dove to a depth of forty feet. The more adventurous divers went under a large shelf and investigated a permanent underwater lighting system and air station at a depth of sixty-five feet and the old salts went down into a natural cave to a depth of

108 feet. Free air refills were provided and most members spent two or three hours underwater. All of the divers commented on the natural rock formations and large fish, which ate right out of your hand, throughout the sink hole.

The dives were spaced between trips to the picnic area where members enjoyed hot dogs, hamburgers, and chicken with liquid refreshment. The more hearty souls even got in some sunbathing.

After leaving Blue Grotto several club members drove to Jennys Spring where they enjoyed a night cave dive.

The next meeting of the Scuba Club will be held on January 20, 1975 and everyone is invited. If anyone would like to dive over the Christmas break contact Ken Stein at 253-8779.

★★★★★

Delta Chi News



We extend a warm fraternal welcome to our new brothers.

On Thanksgiving Day the Brothers of Delta Chi will be enjoying turkey dinner prepared by our little sisters, the Chi Delphia Sisters of the White Camation.

The Brothers are looking forward to the spring trimester as we hope you are. If you came to our recent mid-tri rush party, we hope you had a good time, we enjoyed having you. We hope we interested you in the idea of joining a college fraternity. If so, we will be inducting

a new pledge class in the spring. Between now and then we invite everyone to drop by our fraternity house at 538 South Ridgewood.



What To Say For Exams..

When you are given an objective test: "It doesn't let you express yourself."

When you are given an essay test: "It's so vague. You don't know what's expected."

When you are given many minor tests: "Why not have a few big ones. This keeps you on edge all the time."

When you are given a few major tests: "Too much depends on each one."

When you are given no tests: "It's not fair. How can he possibly judge what we know?"

When every part of the subject is taken up in class: "Oh, he just follows the book."

When you are asked to study a part of the subject by yourself: "Why we never even discussed it."

When the course is in lecture form: "We never get a chance to say anything."

When the course consists of informal lecture and discussion: "He just sits there. Who wants to hear the students? They don't know how to teach this course."

When detailed material is presented: "What's the use? You forget it all after the exam anyway."

When general principles are presented: "What did we learn? We knew all that before we took the course."

When you are given a true-false test: "It is a tricky question test."

When you are given any kind of test: "It is an open book test?"

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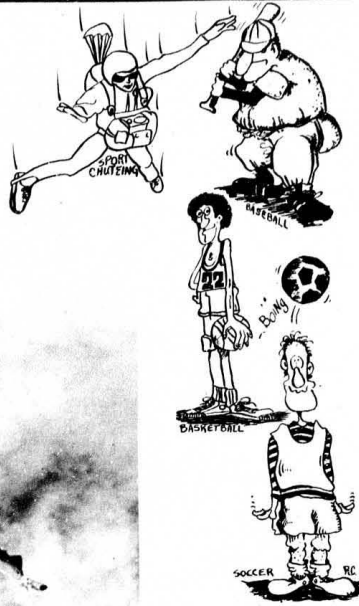
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ERAU SPORTS



Parachute Meet: A Layman's View

By W. D. Wise

Begging the indulgence of the Embry-Riddle Sport Parachute Club members and the National Collegiate Parachute Competition team, I would like to say a few words in relation to the National Collegiate Parachute meet from a layman's point of view.

On Saturday morning (30 November) my wife and I headed out toward Deland Airport to see for ourselves what type of crazy people would throw themselves out of a perfectly safe aircraft and fall towards the earth at approximately 176 feet per second (120 mph) for almost sixty seconds before they attempted to open some form of parachute or para-sail. As we approached the Deland area (5

miles out) we could see four small forms falling from an aircraft at what seemed to be at a relatively high altitude, quite a ways South of the Deland Airport. After what seemed a long period of time these forms had ejected a streamer that shortly afterwards blossomed out into a beautiful colored silk parachute. When we finally reached the sight of all the activity we were surprised to find a well organized and disciplined group of relatively young college people participating in this sport. While we were standing around taking in all the color and activities of the meet which we didn't actually understand, a young man approached us and introduced himself as

William (Bill) Bohringer, an ER 73 grad. Bill, we found, was typical of all the people at the meet, if you had any questions on the procedures, equipment, training or anything that you didn't understand, no matter how simple, they were more than happy to answer it or if possible show you how everything operated. Bill informed us that we were welcome to go out to the landing area and watch the competition in precision accuracy landing event, which consisted of landing on a three-inch disk, starting from an altitude of 3000 feet—there were several exact landings by the way. Both my wife and I were surprised to find that women also competed in this sport and that one of the top leaders of this competitive meet was a young woman jumping for the Air Force Academy Team (she was a friend of one of the cadets.)

We found that to make a single jump, you must be qualified and hold a current certificate (Type A, B, C or D). Then you must pack your own main parachute and reserve chute, then find an airplane—pay the pilot to take you up to some safe altitude, then simply JUMP out the door, heading for Earth. Then at some safe altitude, pulling your D ring to deploy your main parachute allowing you to float to the ground and make a safe, unobstructed landing. The final landing I understand, can be compared to jumping off a two foot high obstacle.

The last jump we were able to witness before a foul weather front closed the day's events, was an attempt to form a star, consisting of 13 guys and gals from various colleges and universities. After an extensive practice on procedures while still on the ground, the group boarded three aircraft and headed for the proverbial wild blue

to rendezvous at 10,000 feet above the Deland Airport. When the signal was given to jump the sky became alive with 13 individual dots rushing towards the ground trying to form into a single large unit before time and altitude ran out. At about 10 seconds (free fall) into the jump only six or so were able to join up—time was critical, the star was broken allowing everyone to clear themselves for a safe deployment of their chute. With all the parachutes open the blue sky became a multitude of colors, floating and dancing upon the winds down to deposit their burden, sometimes not so gently, upon the — trees, tall grass, ponds, hard ground . . . etc.

From a novices point of view (no longer a complete layman), we found the sport and the Collegiate Parachute meet quite interesting and educational for us and for the competence it seemed to breed a common fellowship and spear on high qualities of sportsmanship; no matter where one finished in the final tally.

The only question I have, is why didn't Embry-Riddle Aeronautical University as a whole, show more interest and enthusiasm in the meet, since we were the host school in this annual National Collegiate meet? I would surmise that Sport Parachuting does qualify as an aviation, orientated type activity and that, I think is what Riddle is all about—promoting interest and safety in aviation and associated fields and activities.



Fencing Tournament

By Jack Sprinkle

Embry-Riddle foilers held their first FIFA, Florida Inter-Collegiate Fencing Association tournament at Daytona Beach Community College gym. Schools belonging to FIFA joined Riddle for the competition, included were: Florida State University (FSU), University of Florida (UF), Miami-Dade Community College (MDCC), Florida International University (FIU) and Brevard Community College (BCC).

Several Riddle students assisted the team members in laying down fencing strips and preparing for the competition the night before.

The battling began at 9 AM with men's foil and women's foil. Steve Gibbs, Warren Lucas, and Jack Sprinkle fenced men's foil for Embry-Riddle and fought strongly throughout the event.

Women's epee, men's individual epee and four weapon

teams were among the other events held. The four weapon team for Riddle consisted of Warren Lucas-epee, Steve Gibbs-foil and Jack Sprinkle-sabre. ERAU had to forfeit the fourth weapon which is a woman foil due to lack of a female team member.

After twelve hours of steady sword slashing, trophies were given to the first three winners in each event, and medals were awarded for the men's individual epee.

This competition concluded ERAU's fencing for the fall trimester, but they will be back in full swing for a January 19th tournament next year.

Warren Lucas, elected team captain, will be graduating in December. The team will be losing a devoted and outstanding fencing member. The team would like to thank Warren and wish him the best of luck.

Thanks also goes out to all those who helped the team this trimester, especially during the home meet.

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Photo by Jeff Rubin

Girl Of The Week

Brothers of the Wind

By Jack Bailey

Brothers of the Wind, a newly formed social club on campus, got off to a good start during the month of November by visiting the Volusia County Detention Home, where they played flag football and basketball with the young residents there. The club visited the detention home on two occasions, each time the majority of the young people there showed a great deal of interest in airplanes and the field of aviation in general.

Also on last month's agenda for the club was the granting of honorary membership to Mrs. Mattie Williams, a retired educator and long time resident of Daytona Beach who worked in an aircraft factory in Michigan during World War II.

Brothers of the Wind plan to be involved in campus and community activities. The club's officers are Robert Williams—president, Ralph Malcom—Vice president, Stephen Gibbs—secretary and George Cooper—treasurer.

DOES YOUR IDEA SIMPLIFY COMBINE, ELIMINATE OR IMPROVE?

Little things mount up. The ocean, for instance, is the sum total of the countless tiny drops of water it contains. And the desert is a grain of sand multiplied by incalculable numbers.

Likewise, a wasted piece of material—worth only a fraction of a cent—can turn into an incredible liability if it is wasted several hundred times a day.

A few years ago, a young clerk at the Veterans' Administration headquarters discovered that a postal-card report form could be eliminated since the data it requested was eliminated from other sources. Elimination of the form, the time saved in preparing it, and time saved by the post office a-mounted on more than one and a half million dollars. Needless to say, that clerk is a clerk no longer!

A wrapper in a mail-order house found that a standard package could be adequately secured with 36 inches less string than an old specification sheet called for. The company shipped an average of three million such packages annually. The saving: 1800 miles of string a year!

What are some of the areas where savings of time and money can be made? Let's take a look:

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Fabricated parts: cutting of rejects, preventing damage, safety in handling processing for re-use, adaptability to production processes.

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Refunds From Vending Machines

Although the dollar bill changer at GRW complex had been malfunctioning for a short period of time, Sands received requests for refunds totaling \$20 while there were only \$9 over the correct tally in the machine. Obviously, some fellows have a scheme. The question however, is how does anyone determine who is the legitimate claimant? Sands will pay on a first claim, first pay basis to the limit of the coverage.

Students are submitting requests for refund as late as two, three or four months after the reported loss date. Sands machines are tallied-out each week. The route man cannot verify cash against refund claims if the claims are not submitted promptly. Sands has stated they will not be able to make refund if the request is not submitted immediately upon loss so that claims can be settled at the end of the week.

FREEZING FISH

Mrs. Herman Blair from Springfield, Ohio, tells us her secret for keeping fish tasting fresh even after they have been frozen. After she has cleaned the fish and is ready to put them in plastic bags for the freezer, she adds about 1/4 cup of water to the bags containing the fish. This, she insists, helps to retain the flavor.

\$1500-\$2500 cash bonus for one of these jobs.

Not everyone can get the jobs listed below. You must qualify for them. But, if you do, and successfully complete your training, you'll be paid a cash bonus.

The bonuses range from \$1500-\$2500, depending on the job. You'll be expected to serve a 4-year enlistment. But the bonus will be paid in a lump sum after your training. And most of the jobs are open to women.

In addition to the bonus, you'll also receive regular Army pay and benefits. A starting salary of \$228.30 a month before deductions, with a raise to \$363.30 in just four months. Plus meals, housing, medical and dental care, and 30 days paid vacation every year.

Here are some of the jobs:

- Construction Machinery Operator
- Radar Crewman
- Missile Repairman
- Radio Mechanic
- Electronic Technician
- Electronic Repairman
- Telephone Repairman
- Electrical Instrument Repairman
- Tank Mechanic
- Electrical Plant Operator
- Map Draftsman
- Inventory Clerk

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